This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *May 31, 1915.*

MONTHLY LIST OF PUBLICATIONS.

[MAY, 1915.]

No publications are sold by the Department of Agriculture; therefore do not send money to this office.

Copies of any of the publications listed herein, except the Journal of Agricultural Research, Experiment Station Record, and publications of the Weather Bureau, may be obtained free upon application to the Editor and Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

When this department's supply is exhausted, publications can be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

REPORTS.

Yearbook of the U. S. Department of Agriculture, 1914. Pp. 715, pls. 53, figs. 45. Price, 75 cents.

This Yearbook contains the annual report of the Secretary, 64 pages; 22 miscellaneous articles, 439 pages; an appendix, 183 pages; an index, 26 pages. Only 6 out of each 100 copies are allotted to this department, which number is insufficient to supply even its regular correspondents. Other applicants are therefore respectfully referred to their Representative or Delegate in Congress, as the other 94 per cent is allotted to that body. The Superintendent of Documents, Government Printing Office, Washington, D. C., has it for sale at 75 cents per copy.

SERIALS.

Journal of Agricultural Research. Vol. 4, No. 2. May, 1915.

Contents: Wilt of Gipsy-Moth Caterpillars. By R. W. Glaser.—Effect of Temperature on Germination and Growth of the Common Potato-Scab Organism. By Michael Shapovalov.—Seedling Diseases of Sugar Beets and Their Relation to Root-Rot and Crown-Rot. By H. A. Edson.—Phoma Betae on the Leaves of the Sugar Beet. By Venus W. Pool and M. B. McKay.—Notes on the Hydrocyanic-Acid Content of Sorghum. By J. J. Willaman and R. M. West.—Effect on Soil Moisture of Changes in the Surface Tension of the Soil Solution Brought About by the Addition of Soluble Salts. By P. E. Karraker. Pp. 101–192, pls. XI–XXVII, figs. 22. Price, 25 cents.

NOTE.—THE JOURNAL OF AGRICULTURAL RESEARCH will be distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being $2.50 per year, 12 numbers.

Experiment Station Record, Vol. XXXI, Index Number. May 4, 1915. E. W. Allen, Ph. D.; Editor. Pp. 901–1000. Price, 15 cents.

Same, Vol. XXXII, No. 5, April, 1915. Pp. 401–500. Price, 15 cents.

Same, Vol. XXXII, No. 6. Abstract Number. Pp. 501–600. Price, 15 cents.

Same, Vol. XXXII, No. 7, May, 1915. Pp. 601–699. Price, 15 cents.

NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, ten numbers each, at $1 a volume.

The Monthly Crop Report. Vol. 1, No. 1. May 10, 1915. Pp. 1–8. (Bureau of Crop Estimates.)

The Monthly Crop Report is a resumption, in size and nature of material, of the Crop Reporter, which was discontinued with the issue of June 19, 1914. It contains data relating to agriculture, including estimates of acreage, condition, yield, prices and value of crops and live stock. The publication of the Agricultural Outlook, which formerly contained this matter, was discontinued with the issue of April, 1915.

SERVICE AND REGULATORY ANNOUNCEMENTS.

These contain *only* information, instructions, and notices governing the enforcement of the pure food and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties

render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at 5 cents per copy.

Bureau of Animal Industry. April, 1915. No. 96. Pp. 41–52. May 22, 1915. Price, 5 cents.

Bureau of Chemistry. No. 13. Pp. 1–8. May 3, 1915. Price, 5 cents.

Bureau of Chemistry. Supplement No. 2. Pp. 61–123. May 14, 1915. Price, 5 cents.

Federal Horticultural Board. April, 1915. No. 15. Pp. 17–34. May 29, 1915. Price, 5 cents.

Federal Horticultural Board. Index to Service and Regulatory Announcements issued in 1914. Pp. 91–96. May 14, 1915. Price, 5 cents.

Rules and Regulations Governing the Importation of Cotton Lint into the United States. Pp. 10. Federal Horticultural Board. May 14, 1915.

SOIL SURVEYS.

Soil Survey of Cleburne County, Alabama. By H. G. Lewis and C. S. Waldrop, of the U. S. Department of Agriculture, and F. W. Kolb, of the Alabama Department of Agriculture and Industries. Pp. 38, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Russell County, Alabama. By N. Eric Bell, of the Alabama Department of Agriculture and Industries, and Lewis A. Hurst and J. M. Snyder, of the U. S. Department of Agriculture. Pp. 50, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Stewart County, Georgia. By David D. Long, of the Georgia State College of Agriculture, and M. W. Beck, E. C. Hall, and W. W. Burdette, of the U. S. Department of Agriculture. Pp. 66, pls. 2, fig. 1, map. (From F. O. Soils, 1913.)

Soil Survey of Delaware County, Indiana. By Lewis A. Hurst, of the U. S. Department of Agriculture, and E. J. Grimes of the Indiana Department of Geology. Pp. 31, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Hendricks County, Indiana. By W. E. Tharp, of the U. S. Department of Agriculture, and E. J. Quinn of the Indiana Department of Geology. Pp. 38, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Nodaway County, Missouri. By E. S. Vanatta, of the U. S. Department of Agriculture, and E. W. Knobel and W. I. Watkins, of the University of Missouri. Pp. 31, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Oneida County, New York. By E. T. Maxon and M. Earl Carr, of the U. S. Department of Agriculture, and E. H. Stevens, of the New York State College of Agriculture. Pp. 59, fig. 1, maps, 2. (From F. O. Soils, 1913.) Price, 15 cents.

Soil Survey of Logan and Mingo Counties, West Virginia. By W. J. Latimer. Pp. 30, fig. 1, map. (From F. O. Soils, 1913.) Price, 15 cents.

BULLETINS.

Zygadenus, or Death Camas. By C. Dwight Marsh and A. B. Clawson, Physiologists, and Hadleigh Marsh, Veterinary Inspector. Pp. 46, pls. 6, figs. 4. Contribution from the Bureau of Plant Industry and Bureau of Animal Industry. (Professional Paper.) May 13, 1915. (Department Bulletin 125.) Price, 15 cents.

This paper is intended to supply general information on the relation of Zygadenus to the losses of live stock on the western stock ranges; it is suitable for distribution throughout the western third of the United States.

The Flow of Water in Irrigation Channels. By Fred. C. Scobey, Irrigation Engineer. Pp. 68, pls. 20, figs. 9. Contribution from the Office of Experiment Stations. (Professional Paper.) May 10, 1915. (Department Bulletin 194.) Price, 25 cents.

This bulletin treats of the subject of flowing water in irrigation channels. It is based on field tests made for the purpose of determining the retardation factor in Kutter's formula under the various conditions found in practice. The data secured are intended to aid in the design and construction of irrigation and similar channels. This publication is offered for use of engineers designing and measuring irrigation, drainage, and power channels, and for courts and attorneys at law interested in cases involving the carrying capacities of open channels.

Potato Breeding and Selection. By William Stuart, Horticulturist, Office of Horticultural and Pomological Investigations. Pp. 35, pls. 16, figs. 2. Contribution from the Bureau of Plant Industry. (Professional Paper.) May 20, 1915. (Department Bulletin 195.) Price, 15 cents.

The investigations noted in this bulletin describe the methods used in raising potato seedlings from hand-pollinated seeds, and the selection from these seedlings of the promising plants for the development of a new variety.

Methods followed in the Commercial Canning of Foods. By A. W. Bitting. Pp. 79, pls. 3. Contribution from the Bureau of Chemistry. (Professional Paper.) May 29, 1915. (Department Bulletin 196.) Price, 10 cents.

This bulletin includes information relating to Commercial Canning only, and is of no interest to home canners.

A Maggot Trap in Practical Use: An Experiment in House-Fly Control. By R. H. Hutchison, Scientific Assistant. Pp. 15, pls. 3, figs. 3. Contribution from the Bureau of Entomology. May 4, 1915. (Department Bulletin 200.) Price, 5 cents.

This bulletin describes the operations of a maggot trap based on the migratory habit of house-fly maggots just before pupation. It will be of interest to all farmers and to those industries in which the accumulation of refuse may encourage the propagation of the house fly.

Native Pasture Grasses of the United States. By David Griffiths, of the Bureau of Plant Industry, and George I. Bidwell and Charles E. Goodrich, of the Bureau of Chemistry. Pp. 52, pls. 9. Contribution from the Bureau of Plant Industry and Bureau of Chemistry. (Professional Paper.) May 26, 1915 (Department Bulletin 201.) Price, 15 cents.

This bulletin contains the results of investigations and compilations, mainly of experiment station literature, that will be of value to chemists, agricultural writers, and ranchmen.

The Alcohol Test in Relation to Milk. By S. Henry Ayers, Bacteriologist and William T. Johnson, Jr., Scientific Assistant, Dairy Division. Pp. 35, figs. 4. Contribution from the Bureau of Animal Industry. (Professional Paper.) May 12, 1915. (Department Bulletin 202.) Price, 5 cents.

Of interest to creameries and manufacturers of dairy by-products.

Report on the Gipsy Moth Work in New England. By A. F. Burgess, In Charge of Gipsy Moth and Brown-Tail Moth Work. Pp. 32, pls. 11, figs. 3. Contribution from the Bureau of Entomology. May 21, 1915. (Department Bulletin 204.) Price, 30 cents.

This publication is prepared to show the different lines of work which are being taken up and the results that have been secured.

Eleven Important Wild-Duck Foods. By W. L. McAtee, Assistant Biologist. Pp. 25, figs. 23. Contribution from the Bureau of Biological Survey. May 20, 1915. (Department Bulletin 205.) Price, 5 cents.

This bulletin is for general distribution, and shows how 11 groups of plants may be successfully used as food for wild ducks in localities where now unknown.

The Woolgrower and the Wool Trade. By F. R. Marshall and L. L. Heller, Animal Husbandry Division. Pp. 32, pls. 11. Contribution from the Bureau of Animal Industry. May 25, 1915. (Department Bulletin 206.) Price, 15 cents.

This bulletin discusses the preparation of wools for market and explains the effect upon the value of wool of the factors under the control of the grower. It is of interest to all sheep owners.

Yields of Native Prickly Pear in Southern Texas. By David Griffiths, Agriculturist, Office of Farm Management. Pp. 11, pls. 2. Contribution from the Bureau of Plant Industry. May 13, 1915. (Department Bulletin 208.) Price, 5 cents.

Of interest to stock raisers in the semiarid districts.

Factors Affecting Range Management in New Mexico. By E. O. Wooton, Agriculturist, Office of Farm Management. Pp. 39, pls. 9, figs. 3. Contribution from the Bureau of Plant Industry. May 26, 1915. (Department Bulletin 211.) Price, 15 cents.

The various factors influencing the live-stock industry in New Mexico, especially as affecting range management, are presented and discussed in this bulletin.

Observations on the Pathology of the Jack Pine. By James R. Weir, Forest Pathologist. Pp. 10, pl. 1, figs. 4. Contribution from the Bureau of Plant Industry. (Professional Paper.) May 26, 1915. (Department Bulletin 212.) Price, 5 cents.

A discussion of the various fungi and diseases affecting jack pine.

Spring Wheat in the Great Plains Area. Relation of Cultural Methods to Production. By E. C. Chilcott, Agriculturist in Charge, and J. S. Cole and W. W. Burr, Assistants, Office of Dry-Land Agriculture. Pp. 43. Contribution from the Bureau of Plant Industry. May 1, 1915. (Department Bulletin 214.) Price, 10 cents.

This bulletin is intended for all who are interested in the agricultural possibilities of the Great Plains area.

Composition of Corn (Maize) Meal Manufactured by Different Processes and the Influence of Composition on the Keeping Qualities. By A. L. Winton, W. C. Burnet, and J. H. Bornmann. Pp. 31. Contribution from the Bureau of Chemistry. (Professional Paper.) May 21, 1915. (Department Bulletin 215.) Price, 5 cents.

This bulletin is of interest to corn millers and dealers in corn and corn products and is suitable for distribution in all parts of the country.

Mortality Among the Waterfowl Around Great Salt Lake, Utah. (Preliminary Report.) By Alex Wetmore, Assistant Biologist. Pp. 10, pls. 3. Contribution from the Bureau of Biological Survey. May 26, 1915. (Department Bulletin 217.) Price, 5 cents.

This bulletin is a report of progress in investigating the causes of mortality among ducks and other waterfowl in marshes about Great Salt Lake, Utah.

Oats in the Great Plains Area. Relation of Cultural Methods to Production. By E. C. Chilcott, Agriculturist in Charge, and J. S. Cole and W. W. Burr, Assistants, Office of Dry-Land Agriculture. Pp. 42, fig. 1. Contribution from the Bureau of Plant Industry. May 28, 1915. (Department Bulletin 218.) Price, 10 cents.

This bulletin is intended for all who are interested in the agricultural possibilities of the Great Plains area.

Barley in the Great Plains Area. Relation of Cultural Methods to Production. By E. C. Chilcott, Agriculturist in Charge, and J. S. Cole and W. W. Burr, Assistants, Office of Dry-Land Agriculture. Pp. 32, figs. 2. Contribution from the Bureau of Plant Industry. May 24, 1915. (Department Bulletin 222.) Price, 5 cents.

This bulletin is intended for all who are interested in the agricultural possibilities of the Great Plains area.

A System of Accounting for Cooperative Fruit Associations. By G. A. Nahstoll, Assistant in Cooperative Organization Accounting, and W. H. Kerr, Investigator in Market Business Practice. Pp. 25. Contribution from the Office of Markets and Rural Organization. May 7, 1915. (Department Bulletin 225.) Price, 5 cents.

This bulletin should be of interest to all cooperative fruit associations throughout the country.

The Verbena Bud Moth. By D. E. Fink, Entomological Assistant. Pp. 7, pls. 3, fig. 1. Contribution from the Bureau of Entomology. (Professional Paper.) May 27, 1915. (Department Bulletin 226.) Price, 5 cents.

This bulletin gives the life history of the verbena bud moth, its food plants, and methods for its control.

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Effect of Frequent Cutting on the Water Requirement of Alfalfa and Its Bearing on Pasturage. By Lyman J. Briggs, Biophysicist in Charge of Biophysical Investigations, and H. L. Shantz, Physiologist, Office of Alkali and Drought Resistant Plant Investigations. Pp. 6, figs. 2. Contribution from the Bureau of Plant Industry. (Professional Paper.) May 22, 1915. (Department Bulletin 228.) Price, 5 cents.

This bulletin is of interest to growers of alfalfa in the semiarid regions.

Relation of the Arizona Wild Cotton Weevil to Cotton Planting in the Arid West. By B. R. Coad, Entomological Assistant, Southern Field Crop Insect Investigations. Pp. 12, pls. 4. Contribution from the Bureau of Entomology. May 27, 1915. (Department Bulletin 233.) Price, 5 cents.

Of interest to all cotton growers in the Southwest.

A System of Accounts for Farmers' Cooperative Elevators. By John R. Humphrey, Assistant in Cooperative Grain Elevator Accounting, and W. H. Kerr, Investigator in Market Business Practice. Pp. 30. Contribution from the Office of Markets and Rural Organization. May 1, 1915. (Department Bulletin 236.) Price, 10 cents.

This bulletin is intended for all farmers' cooperative and other elevators throughout the United States. It contains copies of forms and a description of their uses for a system of accounts which is being recommended by the Office of Markets and Rural Organization, United States Department of Agriculture, as a uniform system for farmers' cooperative elevators.

Citrus Fertilization Experiments in Porto Rico. By C. F. Kinman, Horticulturist. Pp. 33, pls. 2. May 14, 1915. (Bulletin 18, Porto Rico Agricultural Experiment Station.) Price, 10 cents.

Cooperative Agricultural Extension Work. Pp. 12. Contribution from the Office of Experiment Stations. May 3, 1915. (Circular 47, Office of the Secretary.) Price, 5 cents.

FARMERS' BULLETINS.

The Chinch Bug. By F. M. Webster, In Charge of Cereal and Forage Insect Investigations. Pp. 28, figs. 9. Contribution from the Bureau of Entomology. May 6, 1915. (Farmers' Bulletin 657.)

This bulletin describes the forms and stages of the chinch bug, its habits and natural enemies, and suggests methods of preventing its ravages.

Weeds: How to Control Them. By H. R. Cox, Agriculturist, Office of Farm Management. Pp. 29, figs. 27. Contribution from the Bureau of Plant Industry. May 12, 1915. (Farmers' Bulletin 660.)

For general distribution.

The Apple-Tree Tent Caterpillar. By A. L. Quaintance, In Charge of Deciduous Fruit Insect Investigations. Pp. 10, figs. 7. Contribution from the Bureau of Entomology. May 11, 1915. (Farmers' Bulletin 662.)

Of interest to all fruit growers.

Breaking and Training Colts. By V. G. Stambaugh, Animal Husbandry Division. Pp. 16, figs. 11. Contribution from the Bureau of Animal Industry. May 22, 1915. (Farmers' Bulletin 667.)

This bulletin is intended for general distribution.

The Squash-Vine Borer. By F. H. Chittenden, In Charge of Truck Crop and Stored Product Insect Investigations. Pp. 6, figs. 2. Contribution from the Bureau of Entomology. May 26, 1915. (Farmers' Bulletin 668.)

This bulletin is a revision of Circular No. 38 of the Bureau of Entomology, U. S. Department of Agriculture.

Fiber Flax. By Frank C. Miles, Scientific Assistant, Fiber-Plant Investigations. Pp. 19, figs. 10. Contribution from the Bureau of Plant Industry. May 25, 1915. (Farmers' Bulletin 669.)

This bulletin is intended for distribution throughout those Northern and Pacific Coast States where the conditions of climate are favorable for the growth of fiber flax.

Harvest Mites, or "Chiggers." By F. H. Chittenden, In Charge of Truck Crop and Stored Product Insect Investigations. Pp. 7, figs. 3. Contribution from the Bureau of Entomology. May 26, 1915. (Farmers' Bulletin 671.)

This bulletin, which is a reprint, with revision, of Circular No. 77 of the Bureau of Entomology, treats of the harvest mite and means for the protection and relief of human beings subject to its attack, together with methods of eradication.

PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

National Weather and Crop Bulletin, Nos. 7, 8, 9, 10, May, 1915, reporting temperature, rainfall, and crop conditions throughout the United States. (Issued weekly, on Wednesday, April to October; monthly remainder of year.) Price, 25 cents a year.

JOS. A. ARNOLD,
Editor and Chief Division of Publications.

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